

PHOTONIC SIGNAL REPORTING OF ELECTROCHEMICAL EVENTS

ABSTRACT OF THE DISCLOSURE

According to one embodiment of the invention, a
5 method for detecting the presence or amount of an analyte
includes associating a first electrolyte solution
containing the analyte with a first region of a bipolar
electrode, associating a second electrolyte solution
containing an electrochemiluminescent system with a
10 second region of the bipolar electrode, ionically
isolating the first electrolyte solution from the second
electrolyte solution, causing a potential difference
between the first and second electrolyte solutions, and
detecting light emitted from the electrochemiluminescent
15 system, thereby indicating the presence or amount of the
analyte at the first region of the bipolar electrode.